

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/565,626

Source: IFWP

Date Processed by STIC: 7/12/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 07/12/2006

PATENT APPLICATION: US/10/565,626

TIME: 10:06:56

Input Set : A:\seq list.txt

Output Set: N:\CRF4\07122006\J565626.raw

3 <110> APPLICANT: INSERTM
 5 <120> TITLE OF INVENTION: IL-11 muteins
 7 <130> FILE REFERENCE: 960-47
 9 <140> CURRENT APPLICATION NUMBER: 10/565,626
 10 <141> CURRENT FILING DATE: 2006-01-24
 12 <150> PRIOR APPLICATION NUMBER: PCT/EP04/009165
 13 <151> PRIOR FILING DATE: 2004-07-29
 15 <150> PRIOR APPLICATION NUMBER: US 60/490,525
 16 <151> PRIOR FILING DATE: 2003-07-29
 18 <160> NUMBER OF SEQ ID NOS: 90
 20 <170> SOFTWARE: PatentIn version 3.3
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 199
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
 29 Met Asn Cys Val Cys Arg Leu Val Leu Val Val Leu Ser Leu Trp Pro
 30 1 5 10 15
 33 Asp Thr Ala Val Ala Pro Gly Pro Pro Pro Gly Pro Pro Arg Val Ser
 34 20 25 30
 37 Pro Asp Pro Arg Ala Glu Leu Asp Ser Thr Val Leu Leu Thr Arg Ser
 38 35 40 45
 41 Leu Leu Ala Asp Thr Arg Gln Leu Ala Ala Gln Leu Arg Asp Lys Phe
 42 50 55 60
 45 Pro Ala Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met
 46 65 70 75 80
 49 Ser Ala Gly Ala Leu Gly Ala Leu Gln Leu Pro Gly Val Leu Thr Arg
 50 85 90 95
 53 Leu Arg Ala Asp Leu Leu Ser Tyr Leu Arg His Val Gln Trp Leu Arg
 54 100 105 110
 57 Arg Ala Gly Gly Ser Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Thr
 58 115 120 125
 61 Leu Gln Ala Arg Leu Asp Arg Leu Leu Arg Arg Leu Gln Leu Leu Met
 62 130 135 140
 65 Ser Arg Leu Ala Leu Pro Gln Pro Pro Pro Asp Pro Pro Ala Pro Pro
 66 145 150 155 160
 69 Leu Ala Pro Pro Ser Ser Ala Trp Gly Gly Ile Arg Ala Ala His Ala
 70 165 170 175
 73 Ile Leu Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu
 74 180 185 190
 77 Leu Leu Leu Lys Thr Arg Leu
 78 195
 81 <210> SEQ ID NO: 2

RAW SEQUENCE LISTING

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Input Set : A:\seq list.txt

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82 <211> LENGTH: 199

83 <212> TYPE: PRT

84 <213> ORGANISM: Macaca fascicularis

86 <400> SEQUENCE: 2

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88 Met Asn Cys Val Cys Arg Leu Val Leu Val Val Leu Ser Leu Trp Pro
89 1          5          10          15
92 Asp Thr Ala Val Ala Pro Gly Pro Pro Gly Ser Pro Arg Ala Ser
93          20          25          30
96 Pro Asp Pro Arg Ala Glu Leu Asp Ser Thr Val Leu Leu Thr Arg Ser
97          35          40          45
100 Leu Leu Glu Asp Thr Arg Gln Leu Thr Ile Gln Leu Lys Asp Lys Phe
101          50          55          60
104 Pro Ala Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met
105 65          70          75          80
108 Ser Ala Gly Ala Leu Gly Ala Leu Gln Leu Pro Ser Val Leu Thr Arg
109          85          90          95
112 Leu Arg Ala Asp Leu Leu Ser Tyr Leu Arg His Val Gln Trp Leu Arg
113          100         105         110
116 Arg Ala Met Gly Ser Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Thr
117          115         120         125
120 Leu Gln Thr Arg Leu Asp Arg Leu Leu Arg Arg Leu Gln Leu Leu Met
121          130         135         140
124 Ser Arg Leu Ala Leu Pro Gln Leu Pro Pro Asp Pro Pro Ala Pro Pro
125 145          150          155          160
128 Leu Ala Pro Pro Ser Ser Thr Trp Gly Gly Ile Arg Ala Ala His Ala
129          165          170          175
132 Ile Leu Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu
133          180          185          190
136 Leu Leu Leu Lys Thr Arg Leu
137          195

```

140 <210> SEQ ID NO: 3

141 <211> LENGTH: 199

142 <212> TYPE: PRT

143 <213> ORGANISM: Mus musculus

145 <400> SEQUENCE: 3

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147 Met Asn Cys Val Cys Arg Leu Val Leu Val Val Leu Ser Leu Trp Pro
148 1          5          10          15
151 Asp Arg Val Val Ala Pro Gly Pro Pro Ala Gly Ser Pro Arg Val Ser
152          20          25          30
155 Ser Asp Pro Arg Ala Asp Leu Asp Ser Ala Val Leu Leu Thr Arg Ser
156          35          40          45
159 Leu Leu Ala Asp Thr Arg Gln Leu Ala Ala Gln Met Arg Asp Lys Phe
160          50          55          60
163 Pro Ala Asp Gly Asp His Ser Leu Asp Ser Leu Pro Thr Leu Ala Met
164 65          70          75          80
167 Ser Ala Gly Thr Leu Gly Ser Leu Gln Leu Pro Gly Val Leu Thr Arg
168          85          90          95
171 Leu Arg Val Asp Leu Met Ser Tyr Leu Arg His Val Gln Trp Leu Arg
172          100         105         110

```

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Input Set : A:\seq list.txt

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175 Arg Ala Gly Gly Pro Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Ala
176          115          120          125
179 Leu Gln Ala Arg Leu Glu Arg Leu Leu Arg Arg Leu Gln Leu Leu Met
180          130          135          140
183 Ser Arg Leu Ala Leu Pro Gln Ala Ala Pro Asp Gln Pro Val Ile Pro
184 145          150          155          160
187 Leu Gly Pro Pro Ala Ser Ala Trp Gly Ser Ile Arg Ala Ala His Ala
188          165          170          175
191 Ile Leu Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu
192          180          185          190
195 Leu Leu Leu Lys Thr Arg Leu
196          195
199 <210> SEQ ID NO: 4
200 <211> LENGTH: 199
201 <212> TYPE: PRT
202 <213> ORGANISM: Rattus norvegicus
205 <400> SEQUENCE: 4
207 Met Asn Cys Val Cys Arg Leu Val Leu Val Val Leu Ser Leu Trp Pro
208 1          5          10          15
211 Asp Arg Val Val Ala Pro Gly Pro Pro Ala Gly Ser Pro Arg Val Ser
212          20          25          30
215 Ser Asp Pro Arg Ala Asp Leu Asp Ser Ala Val Leu Leu Thr Arg Ser
216          35          40          45
219 Leu Leu Ala Asp Thr Arg Gln Leu Ala Ala Gln Met Arg Asp Lys Phe
220          50          55          60
223 Pro Ala Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met
224 65          70          75          80
227 Ser Ala Gly Thr Leu Gly Ser Leu Gln Leu Pro Gly Val Leu Thr Arg
228          85          90          95
231 Leu Arg Val Asp Leu Met Ser Tyr Phe Arg His Val Gln Trp Leu Arg
232          100          105          110
235 Arg Ala Ala Gly Pro Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Ala
236          115          120          125
239 Leu Gln Ala Arg Leu Glu Arg Leu Leu Arg Arg Leu Gln Leu Leu Met
240          130          135          140
243 Ser Arg Leu Ala Leu Pro Gln Ala Ala Pro Asp Gln Pro Ala Val Pro
244 145          150          155          160
247 Leu Gly Pro Pro Ala Ser Ala Trp Gly Ser Ile Arg Ala Ala His Ala
248          165          170          175
251 Ile Leu Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu
252          180          185          190
255 Leu Leu Leu Lys Thr Arg Leu
256          195
259 <210> SEQ ID NO: 5
260 <211> LENGTH: 165
261 <212> TYPE: PRT
262 <213> ORGANISM: Homo sapiens
264 <400> SEQUENCE: 5
266 Pro Arg Ala Glu Leu Asp Ser Thr Val Leu Leu Thr Arg Ser Leu Leu

```

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Input Set : A:\seq list.txt

Output Set: N:\CRF4\07122006\J565626.raw

```

267 1          5          10          15
270 Ala Asp Thr Arg Gln Leu Ala Ala Gln Leu Arg Asp Lys Phe Pro Ala
271          20          25          30
274 Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met Ser Ala
275          35          40          45
278 Gly Ala Leu Gly Ala Leu Gln Leu Pro Gly Val Leu Thr Arg Leu Arg
279          50          55          60
282 Ala Asp Leu Leu Ser Tyr Leu Arg His Val Gln Trp Leu Arg Arg Ala
283 65          70          75          80
286 Gly Gly Ser Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Thr Leu Gln
287          85          90          95
290 Ala Arg Leu Asp Arg Leu Leu Arg Arg Leu Gln Leu Leu Met Ser Arg
291          100         105         110
294 Leu Ala Leu Pro Gln Pro Pro Pro Asp Pro Pro Ala Pro Pro Leu Ala
295          115         120         125
298 Pro Pro Ser Ser Ala Trp Gly Gly Ile Arg Ala Ala His Ala Ile Leu
299          130         135         140
302 Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu Leu Leu
303 145         150         155         160
306 Leu Lys Thr Arg Leu
307          165
310 <210> SEQ ID NO: 6
311 <211> LENGTH: 165
312 <212> TYPE: PRT
313 <213> ORGANISM: Macaca fascicularis
315 <400> SEQUENCE: 6
317 Pro Arg Ala Glu Leu Asp Ser Thr Val Leu Leu Thr Arg Ser Leu Leu
318 1          5          10          15
321 Glu Asp Thr Arg Gln Leu Thr Ile Gln Leu Lys Asp Lys Phe Pro Ala
322          20          25          30
325 Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met Ser Ala
326          35          40          45
329 Gly Ala Leu Gly Ala Leu Gln Leu Pro Ser Val Leu Thr Arg Leu Arg
330          50          55          60
333 Ala Asp Leu Leu Ser Tyr Leu Arg His Val Gln Trp Leu Arg Arg Ala
334 65          70          75          80
337 Met Gly Ser Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Thr Leu Gln
338          85          90          95
341 Thr Arg Leu Asp Arg Leu Leu Arg Arg Leu Gln Leu Leu Met Ser Arg
342          100         105         110
345 Leu Ala Leu Pro Gln Leu Pro Pro Asp Pro Pro Ala Pro Pro Leu Ala
346          115         120         125
349 Pro Pro Ser Ser Thr Trp Gly Gly Ile Arg Ala Ala His Ala Ile Leu
350          130         135         140
353 Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu Leu Leu
354 145         150         155         160
357 Leu Lys Thr Arg Leu
358          165
361 <210> SEQ ID NO: 7

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RAW SEQUENCE LISTING

DATE: 07/12/2006

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TIME: 10:06:56

Input Set : A:\seq list.txt

Output Set: N:\CRF4\07122006\J565626.raw

362 <211> LENGTH: 165

363 <212> TYPE: PRT

364 <213> ORGANISM: Mus musculus

366 <400> SEQUENCE: 7

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368 Pro Arg Ala Asp Leu Asp Ser Ala Val Leu Leu Thr Arg Ser Leu Leu
369 1          5          10          15
372 Ala Asp Thr Arg Gln Leu Ala Ala Gln Met Arg Asp Lys Phe Pro Ala
373          20          25          30
376 Asp Gly Asp His Ser Leu Asp Ser Leu Pro Thr Leu Ala Met Ser Ala
377          35          40          45
380 Gly Thr Leu Gly Ser Leu Gln Leu Pro Gly Val Leu Thr Arg Leu Arg
381          50          55          60
384 Val Asp Leu Met Ser Tyr Leu Arg His Val Gln Trp Leu Arg Arg Ala
385 65          70          75          80
388 Gly Gly Pro Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Ala Leu Gln
389          85          90          95
392 Ala Arg Leu Glu Arg Leu Leu Arg Arg Leu Gln Leu Leu Met Ser Arg
393          100         105         110
396 Leu Ala Leu Pro Gln Ala Ala Pro Asp Gln Pro Val Ile Pro Leu Gly
397          115         120         125
400 Pro Pro Ala Ser Ala Trp Gly Ser Ile Arg Ala Ala His Ala Ile Leu
401          130         135         140
404 Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu Leu Leu
405 145          150         155         160
408 Leu Lys Thr Arg Leu
409          165

```

413 <210> SEQ ID NO: 8

414 <211> LENGTH: 165

415 <212> TYPE: PRT

416 <213> ORGANISM: Rattus norvegicus

418 <400> SEQUENCE: 8

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420 Pro Arg Ala Asp Leu Asp Ser Ala Val Leu Leu Thr Arg Ser Leu Leu
421 1          5          10          15
424 Ala Asp Thr Arg Gln Leu Ala Ala Gln Met Arg Asp Lys Phe Pro Ala
425          20          25          30
428 Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met Ser Ala
429          35          40          45
432 Gly Thr Leu Gly Ser Leu Gln Leu Pro Gly Val Leu Thr Arg Leu Arg
433          50          55          60
436 Val Asp Leu Met Ser Tyr Phe Arg His Val Gln Trp Leu Arg Arg Ala
437 65          70          75          80
440 Ala Gly Pro Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Ala Leu Gln
441          85          90          95
444 Ala Arg Leu Glu Arg Leu Leu Arg Arg Leu Gln Leu Leu Met Ser Arg
445          100         105         110
449 Leu Ala Leu Pro Gln Ala Ala Pro Asp Gln Pro Ala Val Pro Leu Gly
450          115         120         125
453 Pro Pro Ala Ser Ala Trp Gly Ser Ile Arg Ala Ala His Ala Ile Leu
454          130         135         140

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RAW SEQUENCE LISTING ERROR SUMMARY
 PATENT APPLICATION: US/10/565,626

DATE: 07/12/2006
 TIME: 10:06:57

Input Set : A:\seq list.txt
 Output Set: N:\CRF4\07122006\J565626.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 148,152
 Seq#:14; Xaa Pos. 161,165
 Seq#:19; Xaa Pos. 182,186
 Seq#:24; Xaa Pos. 148,152
 Seq#:29; Xaa Pos. 161,165
 Seq#:34; Xaa Pos. 182,186
 Seq#:39; Xaa Pos. 148,152
 Seq#:44; Xaa Pos. 161,165
 Seq#:49; Xaa Pos. 182,186
 Seq#:54; Xaa Pos. 148,152
 Seq#:59; Xaa Pos. 161,165
 Seq#:64; Xaa Pos. 182,186
 Seq#:70; N Pos. 442,443,444,454,455,456
 Seq#:71; N Pos. 481,482,483,493,494,495
 Seq#:72; N Pos. 544,545,546,556,557,558
 Seq#:74; N Pos. 5892,5893,5894,5904,5905,5906
 Seq#:75; N Pos. 607,608,609,619,620,621
 Seq#:76; N Pos. 4311,4312,4313,4323,4324,4325

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
 per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33
 Seq#:34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57
 Seq#:58,59,60,61,62,63,64,65,66,67,68,70,71,72,73,74,75,76,79,80,81,82,83,84
 Seq#:85,86,87,88,89,90

VERIFICATION SUMMARY

DATE: 07/12/2006

PATENT APPLICATION: US/10/565,626

TIME: 10:06:57

Input Set : A:\seq list.txt

Output Set: N:\CRF4\07122006\J565626.raw

L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:144
L:809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:160
L:1115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:176
L:1430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:144
L:1716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:160
L:2022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:176
L:2336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:144
L:2622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:160
L:2927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:176
L:3240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:144
L:3526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:160
L:3826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:176
L:4145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:420
L:4188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:480
L:4233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:540
L:4797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:5880
L:4973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:600
L:5196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:4260
M:341 Repeated in SeqNo=76